

RAW SEQUENCE LISTING  
PATENT APPLICATION US/08/328,673DATE: 03/16/95  
TIME: 18:22:59

INPUT SET: S2778.raw

This Raw Listing contains the General  
Information Section and up to the first 5 pages.

## SEQUENCE LISTING

ENTERED

1  
2  
3 (1) General Information:  
4  
5 (i) APPLICANT: Gregory, Richard J.  
6 Wills, Ken N.  
7 Maneval, Daniel C.  
8  
9 (ii) TITLE OF INVENTION: Recombinant Adenoviral Vector and  
10 Methods of Use  
11  
12 (iii) NUMBER OF SEQUENCES: 9  
13  
14 (iv) CORRESPONDENCE ADDRESS:  
15 (A) ADDRESSEE: Campbell and Flores  
16 (B) STREET: 4370 La Jolla Village Drive, Suite 700  
17 (C) CITY: San Diego  
18 (D) STATE: California  
19 (E) COUNTRY: USA  
20 (F) ZIP: 92122  
21  
22 (v) COMPUTER READABLE FORM:  
23 (A) MEDIUM TYPE: Floppy disk  
24 (B) COMPUTER: IBM PC compatible  
25 (C) OPERATING SYSTEM: PC-DOS/MS-DOS  
26 (D) SOFTWARE: PatentIn Release #1.0, Version #1.25  
27  
28 (vi) CURRENT APPLICATION DATA:  
29 (A) APPLICATION NUMBER: US 08/328,673  
30 (B) FILING DATE: 25-OCT-1994  
31 (C) CLASSIFICATION:  
32  
33 (vii) PRIOR APPLICATION DATA:  
34 (A) APPLICATION NUMBER: US 08/233,777  
35 (B) FILING DATE: 19-MAY-1994  
36  
37 (vii) PRIOR APPLICATION DATA:  
38 (A) APPLICATION NUMBER: US 08/142,669  
39 (B) FILING DATE: 25-OCT-1993  
40  
41 (viii) ATTORNEY/AGENT INFORMATION:  
42 (A) NAME: Campbell, Cathryn A.  
43 (B) REGISTRATION NUMBER: 31,815  
44 (C) REFERENCE/DOCKET NUMBER: P-CJ 1192  
45  
46 (ix) TELECOMMUNICATION INFORMATION:

RAW SEQUENCE LISTING  
PATENT APPLICATION US/08/328,673DATE: 03/16/95  
TIME: 18:23:04

INPUT SET: S2778.raw

47 (A) TELEPHONE: (619) 535-9001  
48 (B) TELEFAX: (619) 535-8949  
49  
50

51 (2) INFORMATION FOR SEQ ID NO:1:  
52

53 (i) SEQUENCE CHARACTERISTICS:  
54 (A) LENGTH: 25 base pairs  
55 (B) TYPE: nucleic acid  
56 (C) STRANDEDNESS: single  
57 (D) TOPOLOGY: linear  
58  
59  
60

61 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1:  
6263 CGCCACCGAG GGACCTGAGC GAGTC  
64

25

65 (2) INFORMATION FOR SEQ ID NO:2:  
66

67 (i) SEQUENCE CHARACTERISTICS:  
68 (A) LENGTH: 20 base pairs  
69 (B) TYPE: nucleic acid  
70 (C) STRANDEDNESS: single  
71 (D) TOPOLOGY: linear  
72  
73  
74

75 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2:  
7677 TTCTGGGAAG GGACAGAAGA  
78

20

79 (2) INFORMATION FOR SEQ ID NO:3:  
80

81 (i) SEQUENCE CHARACTERISTICS:  
82 (A) LENGTH: 25 base pairs  
83 (B) TYPE: nucleic acid  
84 (C) STRANDEDNESS: single  
85 (D) TOPOLOGY: linear  
86  
87  
88

89 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:3:  
9091 CGCGCTAGCT CTGCCCCAAA GAGCT  
92

25

93 (2) INFORMATION FOR SEQ ID NO:4:  
94

95 (i) SEQUENCE CHARACTERISTICS:  
96 (A) LENGTH: 39 base pairs  
97 (B) TYPE: nucleic acid  
98 (C) STRANDEDNESS: single  
99 (D) TOPOLOGY: linear

RAW SEQUENCE LISTING  
PATENT APPLICATION US/08/328,673DATE: 03/16/95  
TIME: 18:23:10

INPUT SET: S2778.raw

100  
101  
102  
103 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:4:  
104  
105 CGCGGTACCC TCGAGTCTAG ATATTGCCAG TGGTGGAAAG 39  
106  
107 (2) INFORMATION FOR SEQ ID NO:5:  
108  
109 (i) SEQUENCE CHARACTERISTICS:  
110 (A) LENGTH: 35 base pairs  
111 (B) TYPE: nucleic acid  
112 (C) STRANDEDNESS: single  
113 (D) TOPOLOGY: linear  
114  
115  
116  
117 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:5:  
118  
119 CGTGCGGCCG CTGGAGGACT TTGAGGATGT CTGTC 35  
120  
121 (2) INFORMATION FOR SEQ ID NO:6:  
122  
123 (i) SEQUENCE CHARACTERISTICS:  
124 (A) LENGTH: 33 base pairs  
125 (B) TYPE: nucleic acid  
126 (C) STRANDEDNESS: single  
127 (D) TOPOLOGY: linear  
128  
129  
130  
131 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:6:  
132  
133 CGCTCTAGAG AGACCAGTTA GGAAGTTTTTC GCA 33  
134  
135 (2) INFORMATION FOR SEQ ID NO:7:  
136  
137 (i) SEQUENCE CHARACTERISTICS:  
138 (A) LENGTH: 2995 base pairs  
139 (B) TYPE: nucleic acid  
140 (C) STRANDEDNESS: single  
141 (D) TOPOLOGY: linear  
142  
143  
144 (ix) FEATURE:  
145 (A) NAME/KEY: CDS  
146 (B) LOCATION: 139..2922  
147  
148  
149 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:7:  
150  
151 TTCCGGTTTT TCTCAGGGGA CGTTGAAATT ATTTTGTAA CGGGAGTCGG GAGAGGACGG 60  
152

# RAW SEQUENCE LISTING PATENT APPLICATION US/08/328,673

DATE: 03/16/95  
TIME: 18:23:15

INPUT SET: S2778.raw

153	GGCGTGCCCC GCGTGCGCGC GCGTCGTCCT CCCCggcgct CCTCCACAGC TCGCTGGCTC	120
154		
155	CCGCCGCGGA AAGGCGTC ATG CCG CCC AAA ACC CCC CGA AAA ACG GCC GCC	171
156	Met Pro Pro Lys Thr Pro Arg Lys Thr Ala Ala	
157	1 5 10	
158		
159	ACC GCC GCC GCT GCC GCC GCG GAA CCC CCG GCA CCG CCG CCG CCG CCC	219
160	Thr Ala Ala Ala Ala Ala Ala Glu Pro Pro Ala Pro Pro Pro Pro Pro	
161	15 20 25	
162		
163	CCT CCT GAG GAG GAC CCA GAG CAG GAC AGC GGC CCG GAG GAC CTG CCT	267
164	Pro Pro Glu Glu Asp Pro Glu Gln Asp Ser Gly Pro Glu Asp Leu Pro	
165	30 35 40	
166		
167	CTC GTC AGG CTT GAG TTT GAA GAA ACA GAA GAA CCT GAT TTT ACT GCA	315
168	Leu Val Arg Leu Glu Phe Glu Glu Thr Glu Glu Pro Asp Phe Thr Ala	
169	45 50 55	
170		
171	TTA TGT CAG AAA TTA AAG ATA CCA GAT CAT GTC AGA GAG AGA GCT TGG	363
172	Leu Cys Gln Lys Leu Lys Ile Pro Asp His Val Arg Glu Arg Ala Trp	
173	60 65 70 75	
174		
175	TTA ACT TGG GAG AAA GTT TCA TCT GTG GAT GGA GTA TTG GGA GGT TAT	411
176	Leu Thr Trp Glu Lys Val Ser Ser Val Asp Gly Val Leu Gly Gly Tyr	
177	80 85 90	
178		
179	ATT CAA AAG AAA AAG GAA CTG TGG GGA ATC TGT ATC TTT ATT GCA GCA	459
180	Ile Gln Lys Lys Lys Glu Leu Trp Gly Ile Cys Ile Phe Ile Ala Ala	
181	95 100 105	
182		
183	GTT GAC CTA GAT GAG ATG TCG TTC ACT TTT ACT GAG CTA CAG AAA AAC	507
184	Val Asp Leu Asp Glu Met Ser Phe Thr Phe Thr Glu Leu Gln Lys Asn	
185	110 115 120	
186		
187	ATA GAA ATC AGT GTC CAT AAA TTC TTT AAC TTA CTA AAA GAA ATT GAT	555
188	Ile Glu Ile Ser Val His Lys Phe Phe Asn Leu Leu Lys Glu Ile Asp	
189	125 130 135	
190		
191	ACC AGT ACC AAA GTT GAT AAT GCT ATG TCA AGA CTG TTG AAG AAG TAT	603
192	Thr Ser Thr Lys Val Asp Asn Ala Met Ser Arg Leu Leu Lys Lys Tyr	
193	140 145 150 155	
194		
195	GAT GTA TTG TTT GCA CTC TTC AGC AAA TTG GAA AGG ACA TGT GAA CTT	651
196	Asp Val Leu Phe Ala Leu Phe Ser Lys Leu Glu Arg Thr Cys Glu Leu	
197	160 165 170	
198		
199	ATA TAT TTG ACA CAA CCC AGC AGT TCG ATA TCT ACT GAA ATA AAT TCT	699
200	Ile Tyr Leu Thr Gln Pro Ser Ser Ser Ile Ser Thr Glu Ile Asn Ser	
201	175 180 185	
202		
203	GCA TTG GTG CTA AAA GTT TCT TGG ATC ACA TTT TTA TTA GCT AAA GGG	747
204	Ala Leu Val Leu Lys Val Ser Trp Ile Thr Phe Leu Leu Ala Lys Gly	
205	190 195 200	

**INPUT SET: S2778.raw**

206																		
207	GAA	GTA	TTA	CAA	ATG	GAA	GAT	GAT	CTG	GTG	ATT	TCA	TTT	CAG	TTA	ATG		795
208	Glu	Val	Leu	Gln	Met	Glu	Asp	Asp	Leu	Val	Ile	Ser	Phe	Gln	Leu	Met		
209		205					210					215						
210																		
211	CTA	TGT	GTC	CTT	GAC	TAT	TTT	ATT	AAA	CTC	TCA	CCT	CCC	ATG	TTG	CTC		843
212	Leu	Cys	Val	Leu	Asp	Tyr	Phe	Ile	Lys	Leu	Ser	Pro	Pro	Met	Leu	Leu		
213	220					225				230						235		
214																		
215	AAA	GAA	CCA	TAT	AAA	ACA	GCT	GTT	ATA	CCC	ATT	AAT	GGT	TCA	CCT	CGA		891
216	Lys	Glu	Pro	Tyr	Lys	Thr	Ala	Val	Ile	Pro	Ile	Asn	Gly	Ser	Pro	Arg		
217					240					245					250			
218																		
219	ACA	CCC	AGG	CGA	GGT	CAG	AAC	AGG	AGT	GCA	CGG	ATA	GCA	AAA	CAA	CTA		939
220	Thr	Pro	Arg	Arg	Gly	Gln	Asn	Arg	Ser	Ala	Arg	Ile	Ala	Lys	Gln	Leu		
221				255				260						265				
222																		
223	GAA	AAT	GAT	ACA	AGA	ATT	ATT	GAA	GTT	CTC	TGT	AAA	GAA	CAT	GAA	TGT		987
224	Glu	Asn	Asp	Thr	Arg	Ile	Ile	Glu	Val	Leu	Cys	Lys	Glu	His	Glu	Cys		
225			270					275					280					
226																		
227	AAT	ATA	GAT	GAG	GTG	AAA	AAT	GTT	TAT	TTC	AAA	AAT	TTT	ATA	CCT	TTT		1035
228	Asn	Ile	Asp	Glu	Val	Lys	Asn	Val	Tyr	Phe	Lys	Asn	Phe	Ile	Pro	Phe		
229		285					290					295						
230																		
231	ATG	AAT	TCT	CTT	GGA	CTT	GTA	ACA	TCT	AAT	GGA	CTT	CCA	GAG	GTT	GAA		1083
232	Met	Asn	Ser	Leu	Gly	Leu	Val	Thr	Ser	Asn	Gly	Leu	Pro	Glu	Val	Glu		
233	300					305					310					315		
234																		
235	AAT	CTT	TCT	AAA	CGA	TAC	GAA	GAA	ATT	TAT	CTT	AAA	AAT	AAA	GAT	CTA		1131
236	Asn	Leu	Ser	Lys	Arg	Tyr	Glu	Glu	Ile	Tyr	Leu	Lys	Asn	Lys	Asp	Leu		
237					320					325					330			
238																		
239	GAT	GCA	AGA	TTA	TTT	TTG	GAT	CAT	GAT	AAA	ACT	CTT	CAG	ACT	GAT	TCT		1179
240	Asp	Ala	Arg	Leu	Phe	Leu	Asp	His	Asp	Lys	Thr	Leu	Gln	Thr	Asp	Ser		
241				335					340					345				
242																		
243	ATA	GAC	AGT	TTT	GAA	ACA	CAG	AGA	ACA	CCA	CGA	AAA	AGT	AAC	CTT	GAT		1227
244	Ile	Asp	Ser	Phe	Glu	Thr												